



Appendix for WiFi 5GHz

Product Name: Chime Repeater
Model No: CH-C11E

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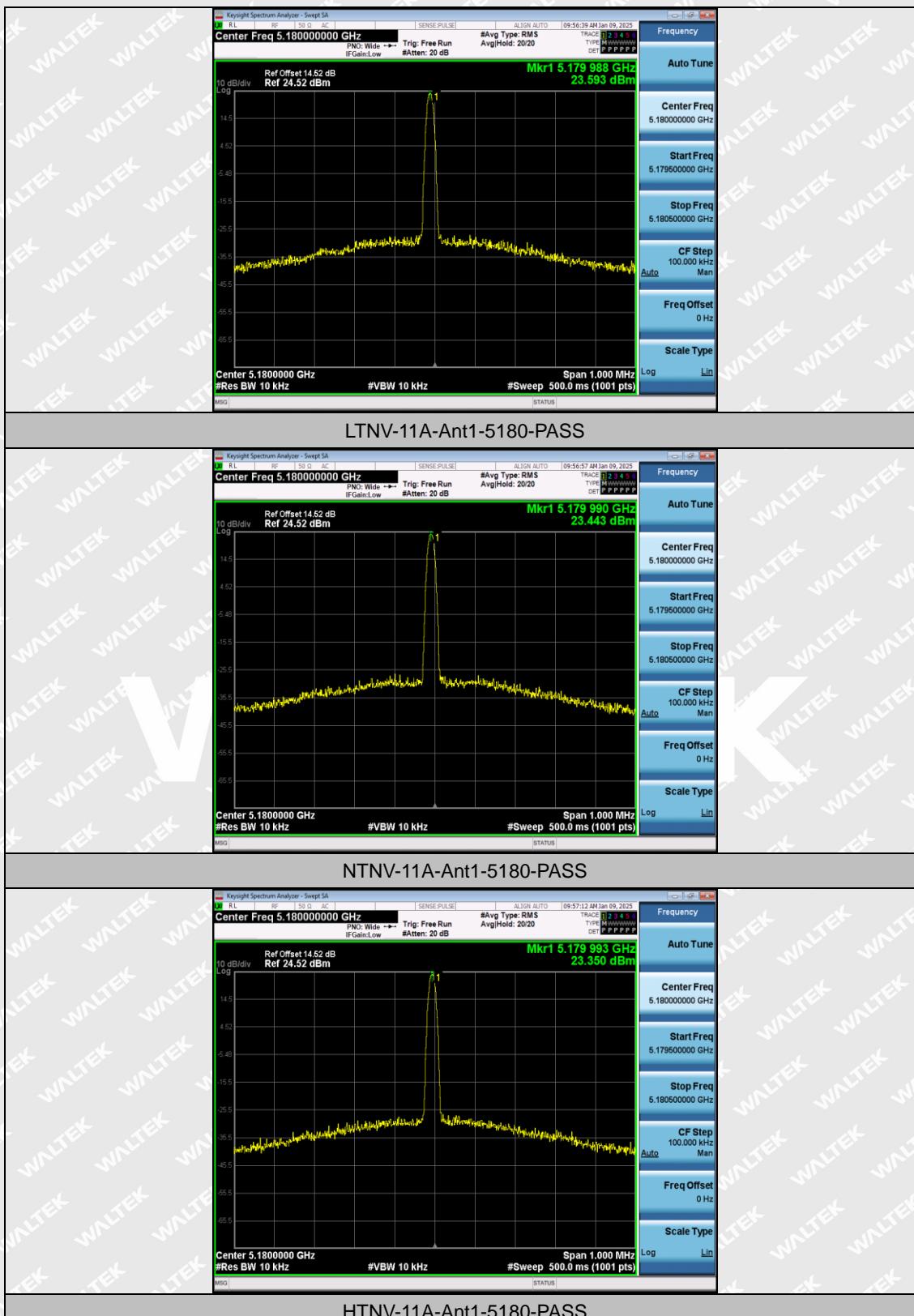
Appendix A: Carrier frequencies

Test Result

Test Condition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
LTNV	11A	Ant1	5180	-2.31660	±20	PASS
NTNV	11A	Ant1	5180	-1.93050	±20	PASS
HTNV	11A	Ant1	5180	-1.35135	±20	PASS
LTNV	11N20SISO	Ant1	5180	-0.77220	±20	PASS
NTNV	11N20SISO	Ant1	5180	-0.19305	±20	PASS
HTNV	11N20SISO	Ant1	5180	0.19305	±20	PASS
LTNV	11N40SISO	Ant1	5190	-0.38536	±20	PASS
NTNV	11N40SISO	Ant1	5190	1.54143	±20	PASS
HTNV	11N40SISO	Ant1	5190	2.11946	±20	PASS
LTNV	11AC20SISO	Ant1	5180	0.96525	±20	PASS
NTNV	11AC20SISO	Ant1	5180	3.08880	±20	PASS
HTNV	11AC20SISO	Ant1	5180	3.47490	±20	PASS
LTNV	11AC40SISO	Ant1	5190	1.73410	±20	PASS
NTNV	11AC40SISO	Ant1	5190	4.43160	±20	PASS
HTNV	11AC40SISO	Ant1	5190	5.00963	±20	PASS
LTNV	11AC80SISO	Ant1	5210	3.07102	±20	PASS
NTNV	11AC80SISO	Ant1	5210	5.18234	±20	PASS
HTNV	11AC80SISO	Ant1	5210	5.75816	±20	PASS



Test Graphs





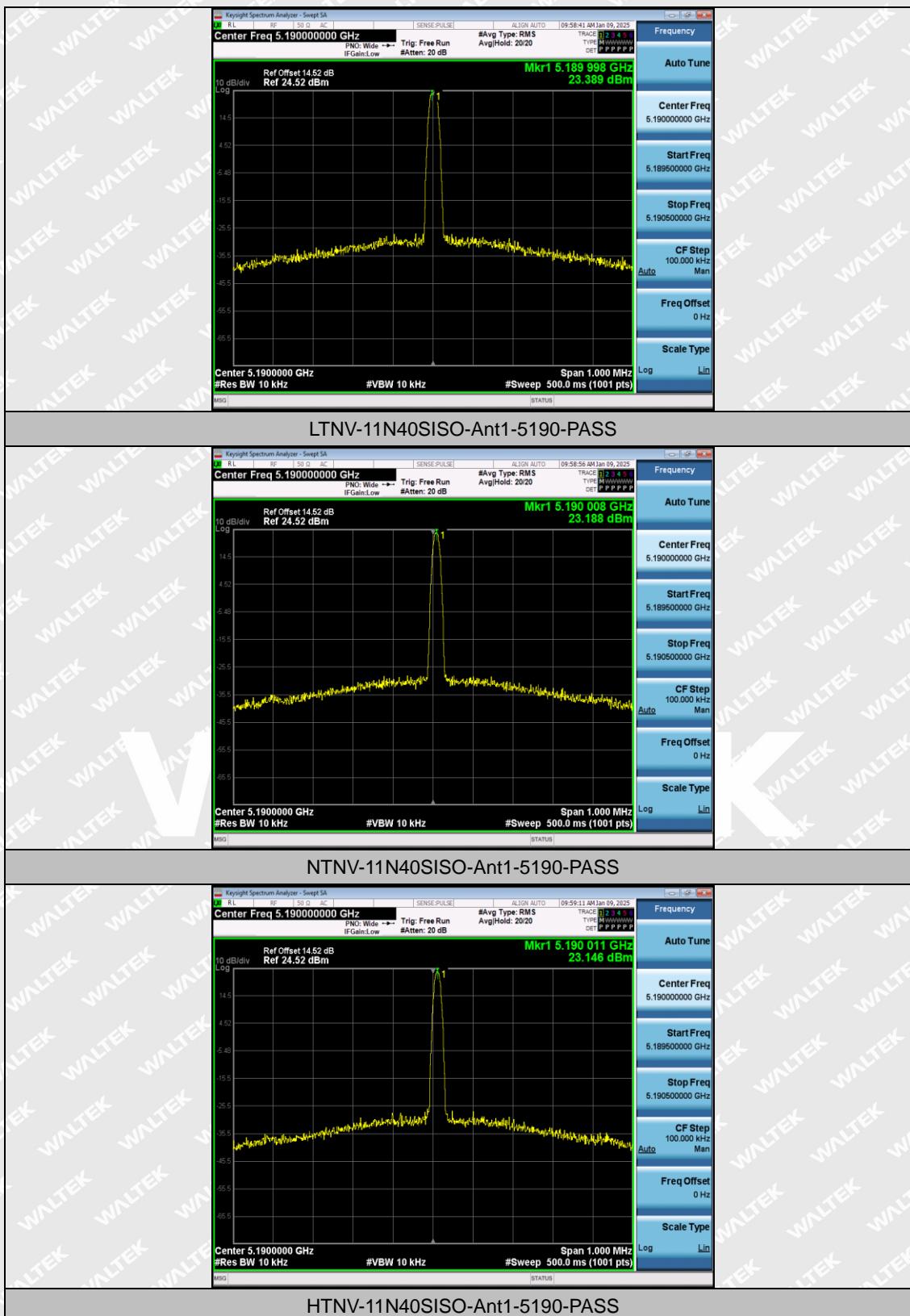
LTNV-11N20SISO-Ant1-5180-PASS

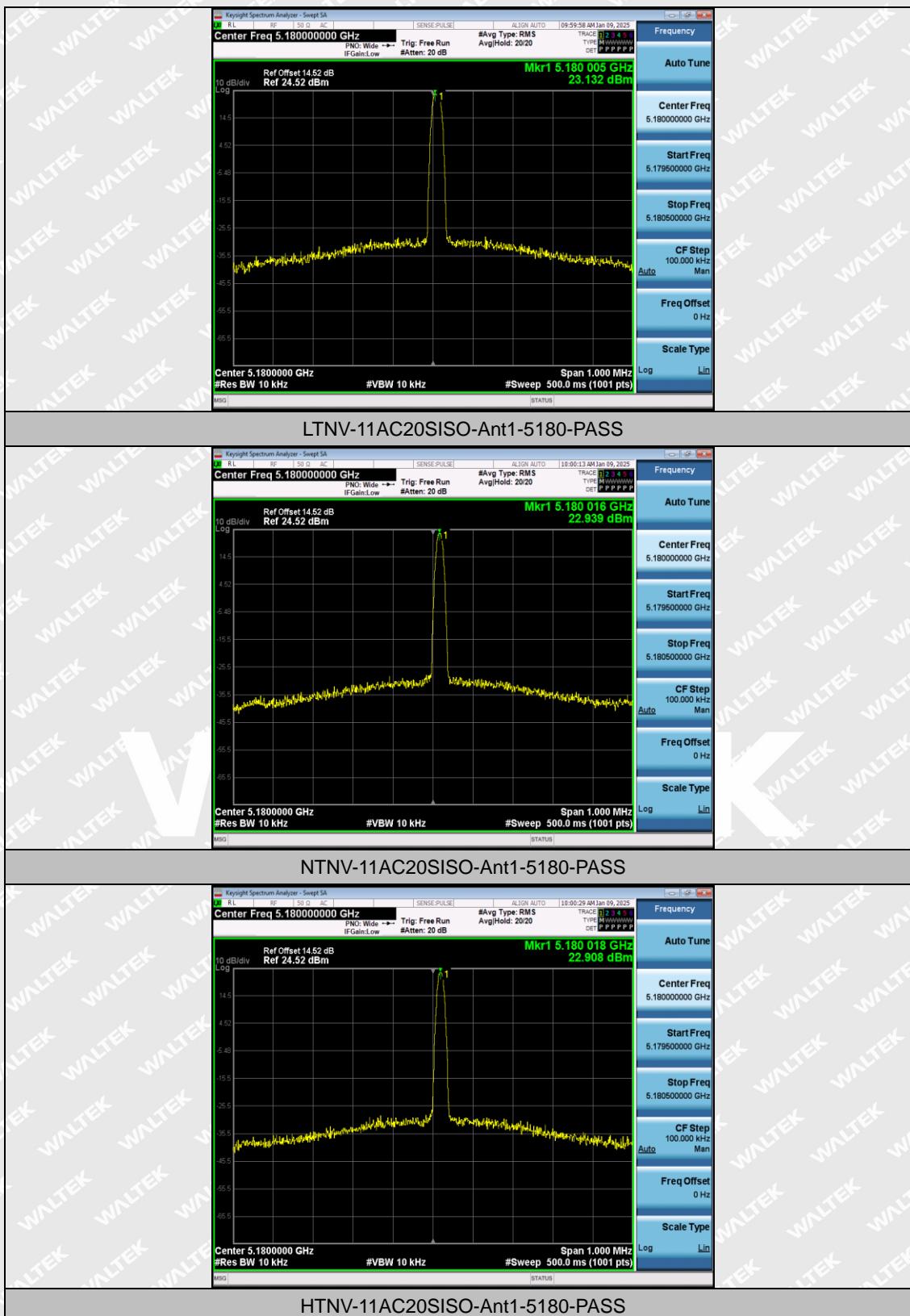


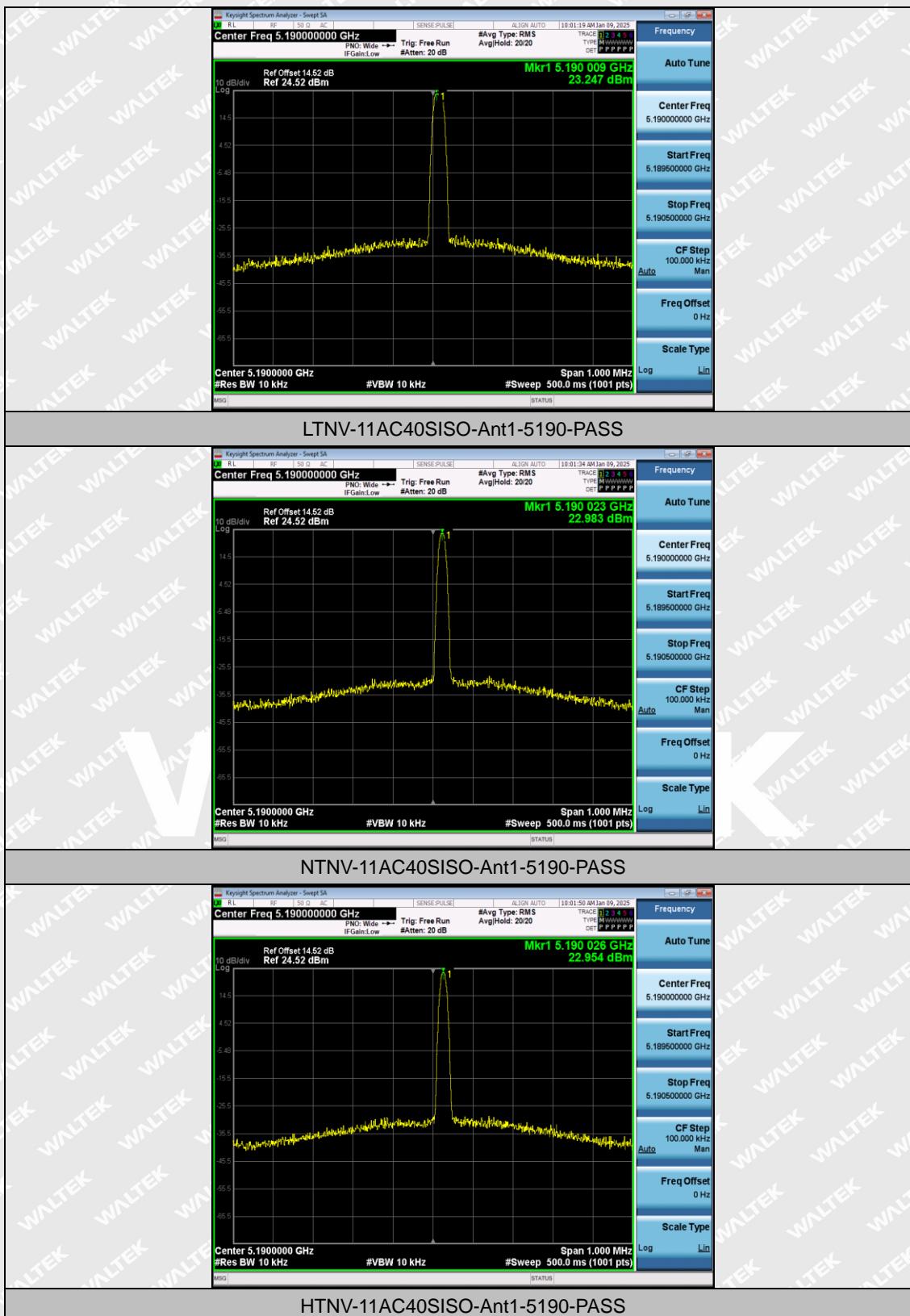
NTNV-11N20SISO-Ant1-5180-PASS

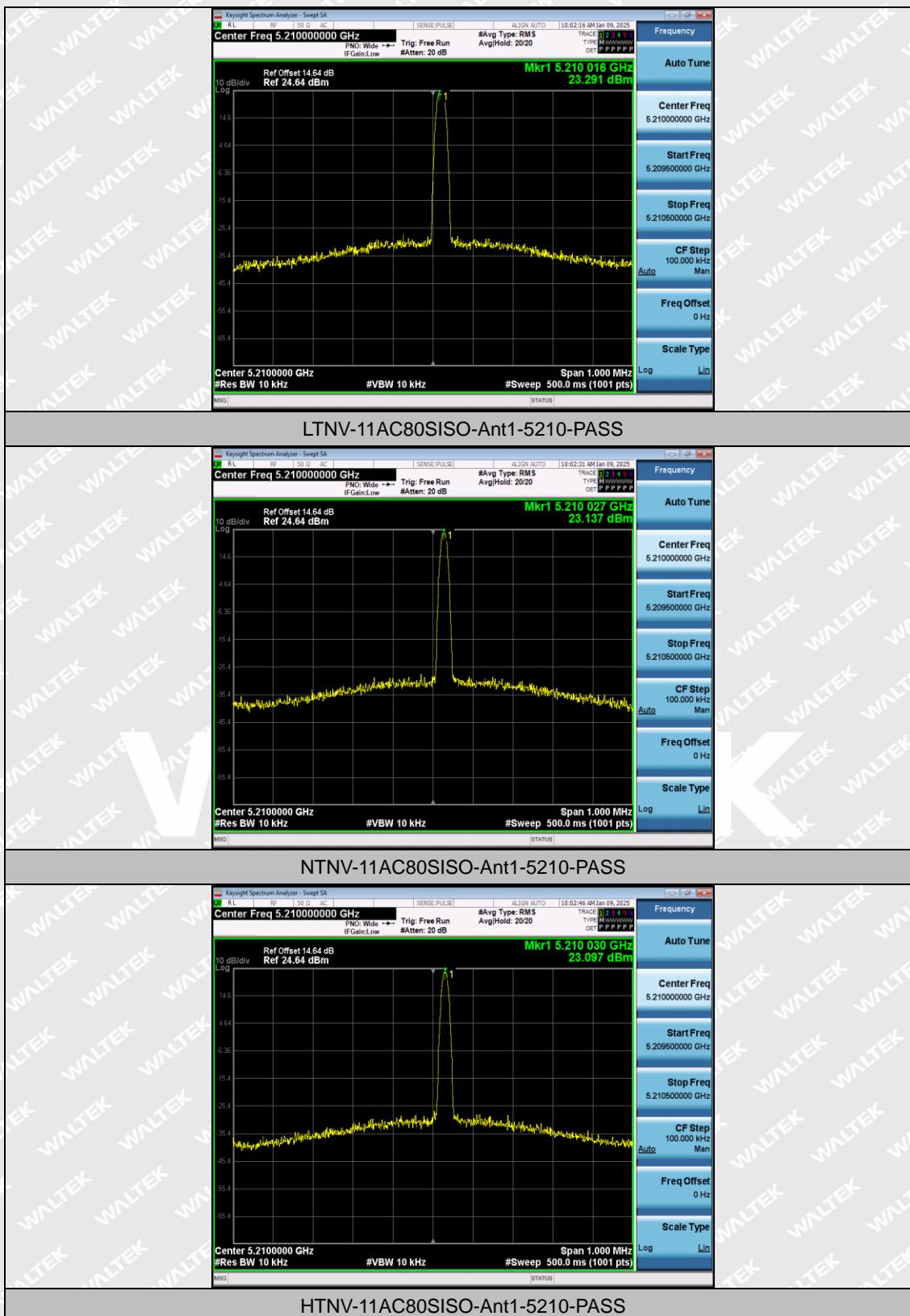


HTNV-11N20SISO-Ant1-5180-PASS











Appendix B: RF Output Power

Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	TPC	Set Power	EIRP [dBm]	EIRP Limit [dBm]	Verdict
LTNV	11A	Ant1	5180	NA	NA	17.61	23	PASS
NTNV	11A	Ant1	5180	NA	NA	17.16	23	PASS
HTNV	11A	Ant1	5180	NA	NA	17.04	23	PASS
LTNV	11N20SISO	Ant1	5180	NA	NA	15.36	23	PASS
NTNV	11N20SISO	Ant1	5180	NA	NA	14.74	23	PASS
HTNV	11N20SISO	Ant1	5180	NA	NA	14.91	23	PASS
LTNV	11N40SISO	Ant1	5190	NA	NA	13.89	23	PASS
NTNV	11N40SISO	Ant1	5190	NA	NA	15.24	23	PASS
HTNV	11N40SISO	Ant1	5190	NA	NA	15.89	23	PASS
LTNV	11AC20SISO	Ant1	5180	NA	NA	14.56	23	PASS
NTNV	11AC20SISO	Ant1	5180	NA	NA	14.09	23	PASS
HTNV	11AC20SISO	Ant1	5180	NA	NA	14.39	23	PASS
LTNV	11AC40SISO	Ant1	5190	NA	NA	13.76	23	PASS
NTNV	11AC40SISO	Ant1	5190	NA	NA	13.79	23	PASS
HTNV	11AC40SISO	Ant1	5190	NA	NA	13.48	23	PASS
LTNV	11AC80SISO	Ant1	5210	NA	NA	14.31	23	PASS
NTNV	11AC80SISO	Ant1	5210	NA	NA	14.39	23	PASS
HTNV	11AC80SISO	Ant1	5210	NA	NA	14.18	23	PASS



Appendix C: Power Spectral Density

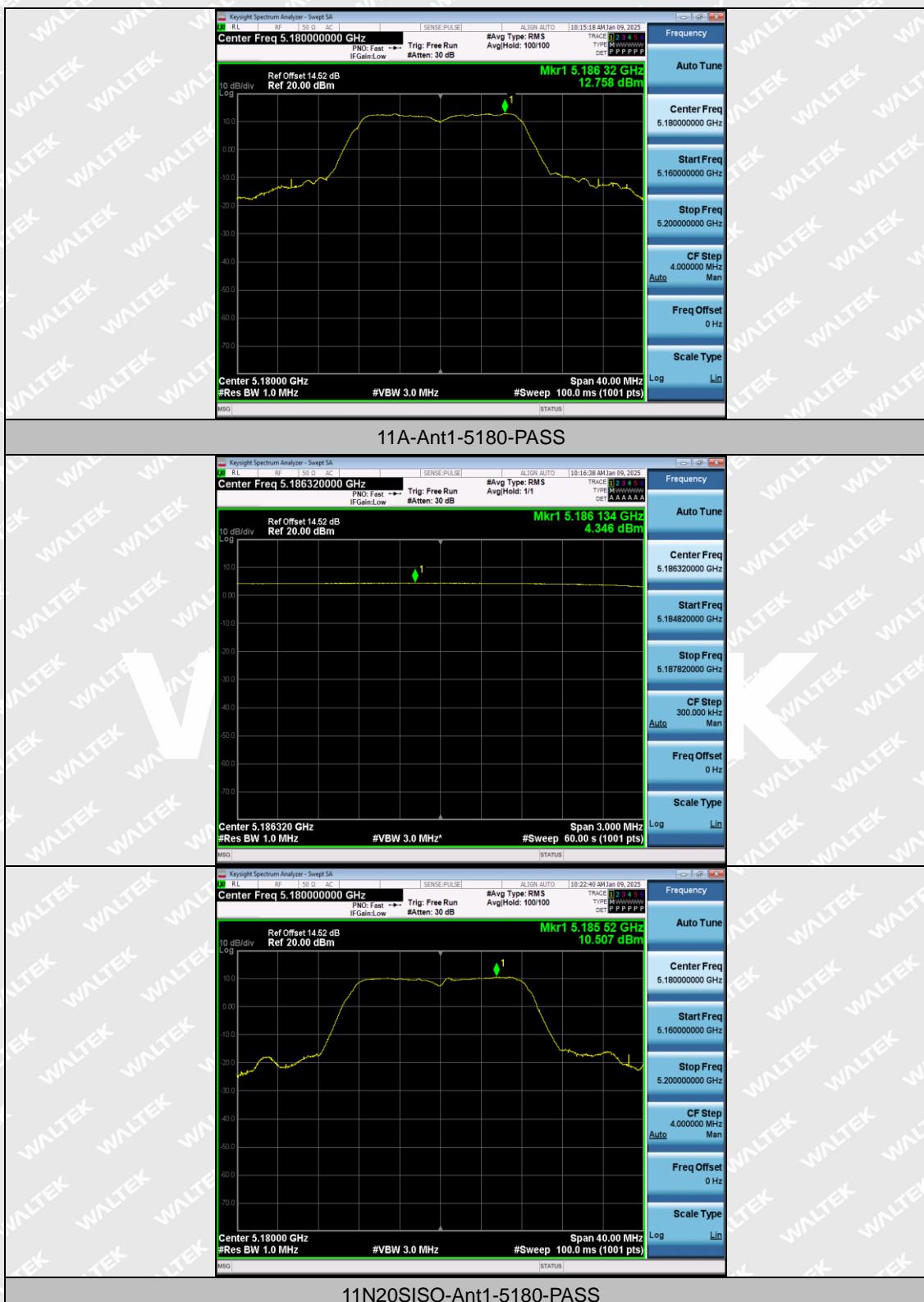
Test Result

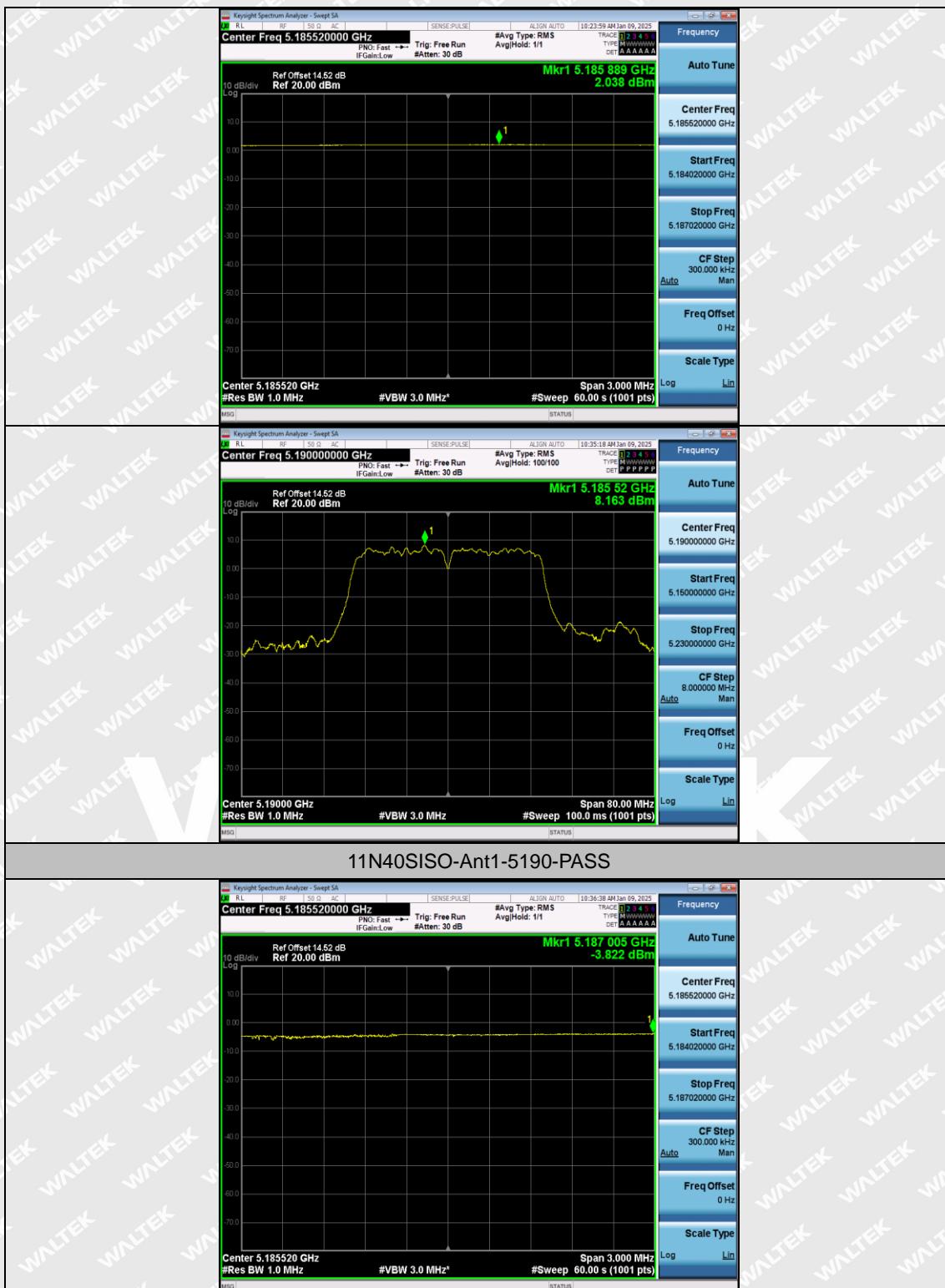
TestMode	Antenna	Channel	EIRP PSD [dBm/MHz]	Limit [dBm]	Verdict
11A	Ant1	5180	5.71	10	PASS
11N20SISO	Ant1	5180	2.81	10	PASS
11N40SISO	Ant1	5190	0.10	10	PASS
11AC20SISO	Ant1	5180	2.00	10	PASS
11AC40SISO	Ant1	5190	-1.52	10	PASS
11AC80SISO	Ant1	5210	-1.97	10	PASS

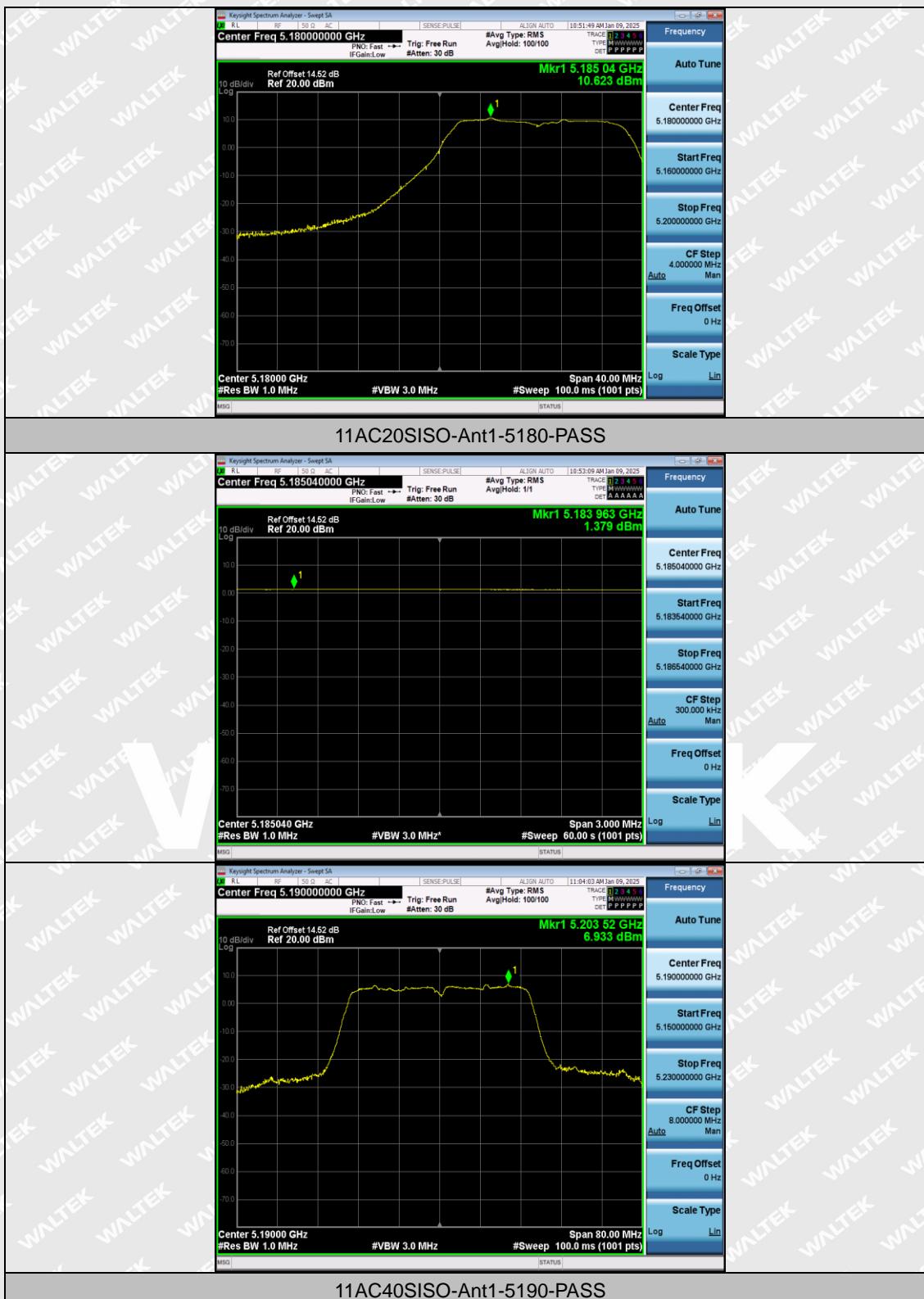
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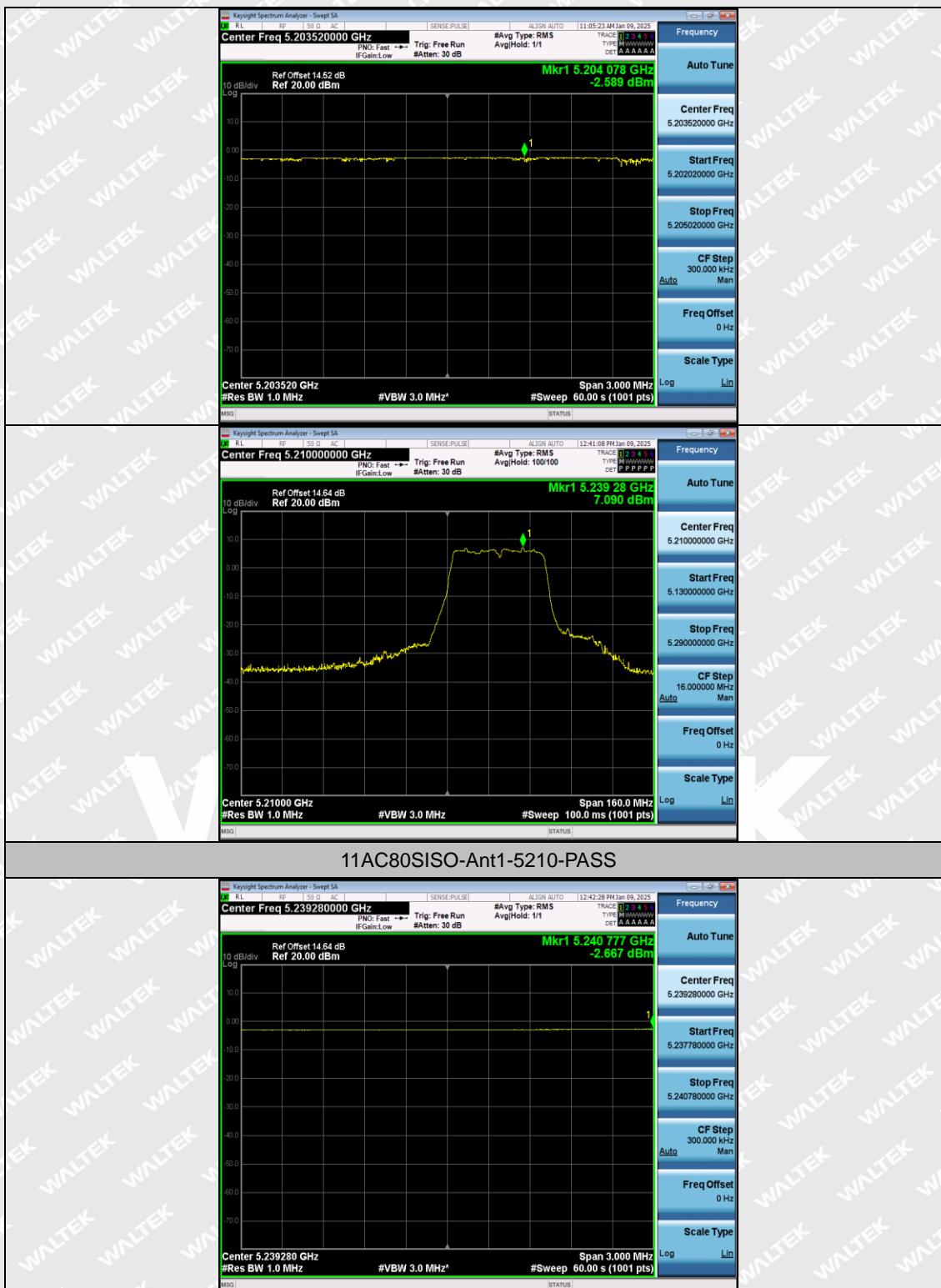


Test Graphs











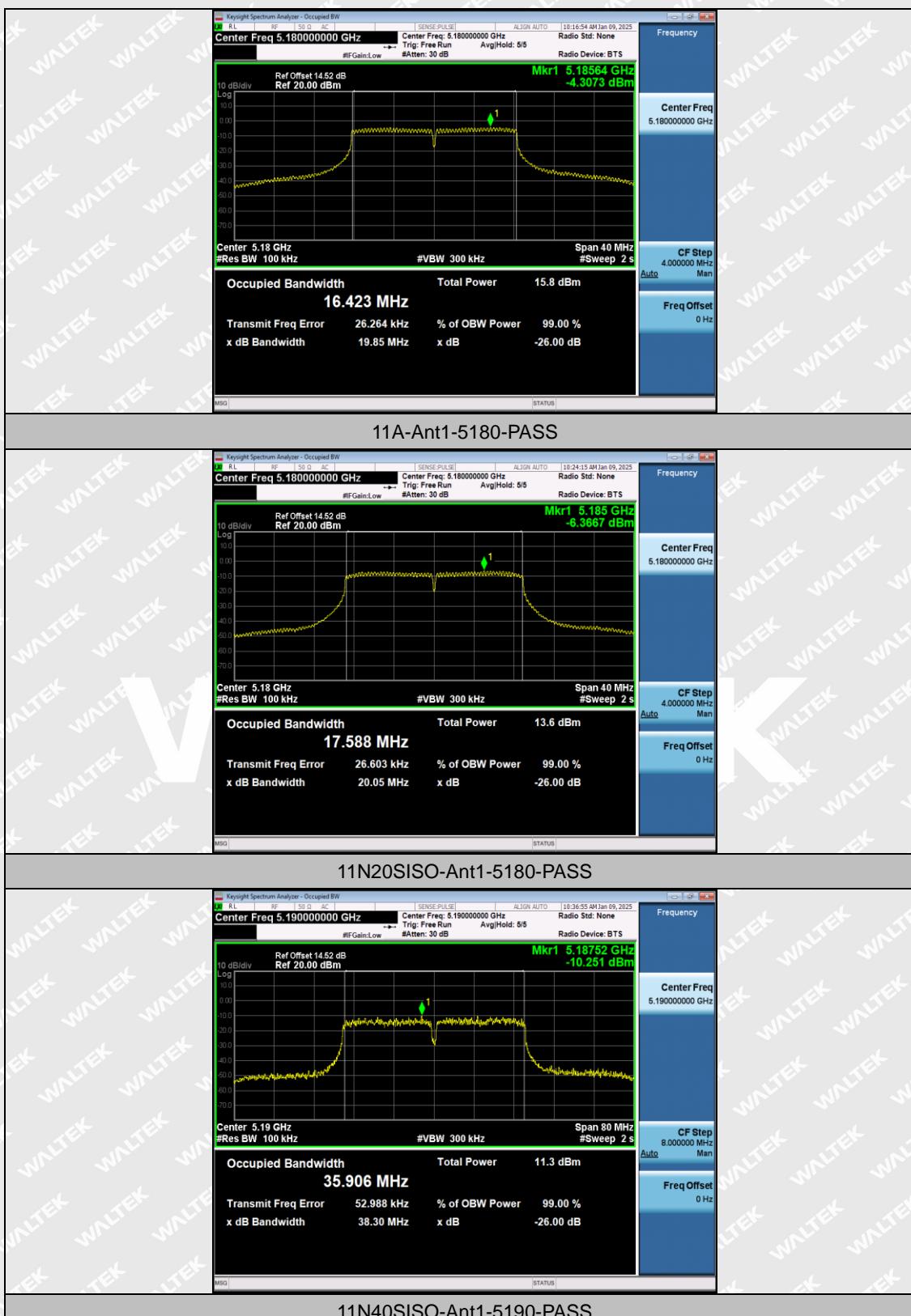
Appendix D: Occupied Channel Bandwidth

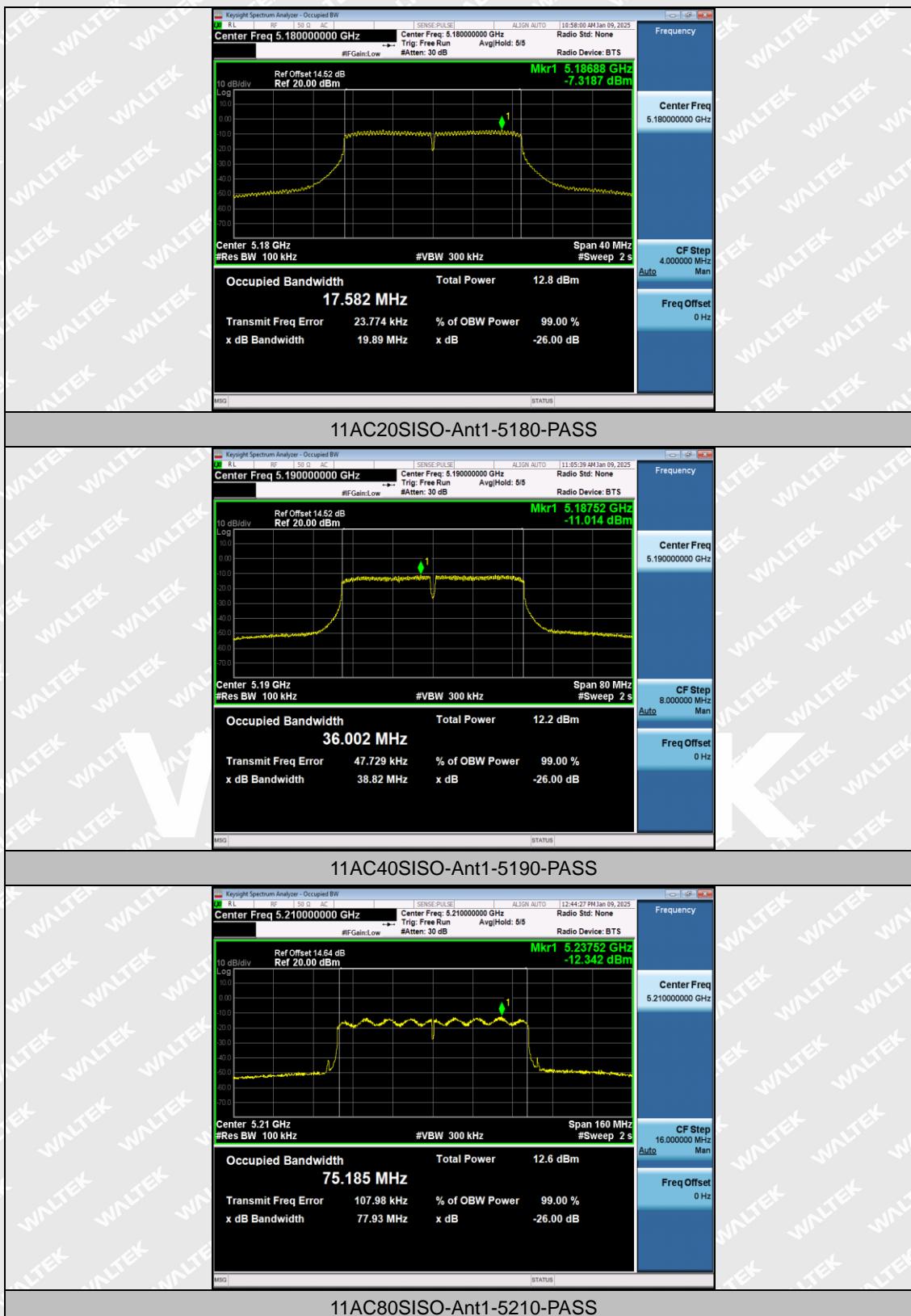
Test Result

TestMode	Antenna	Frequency[MHz]	OCB[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.423	16 to 20	PASS
11N20SISO	Ant1	5180	17.588	16 to 20	PASS
11N40SISO	Ant1	5190	35.906	32 to 40	PASS
11AC20SISO	Ant1	5180	17.582	16 to 20	PASS
11AC40SISO	Ant1	5190	36.002	32 to 40	PASS
11AC80SISO	Ant1	5210	75.185	64 to 80	PASS



Test Graphs







Appendix E: Transmitter unwanted emissions within the 5 GHz

RLAN bands

Test Result

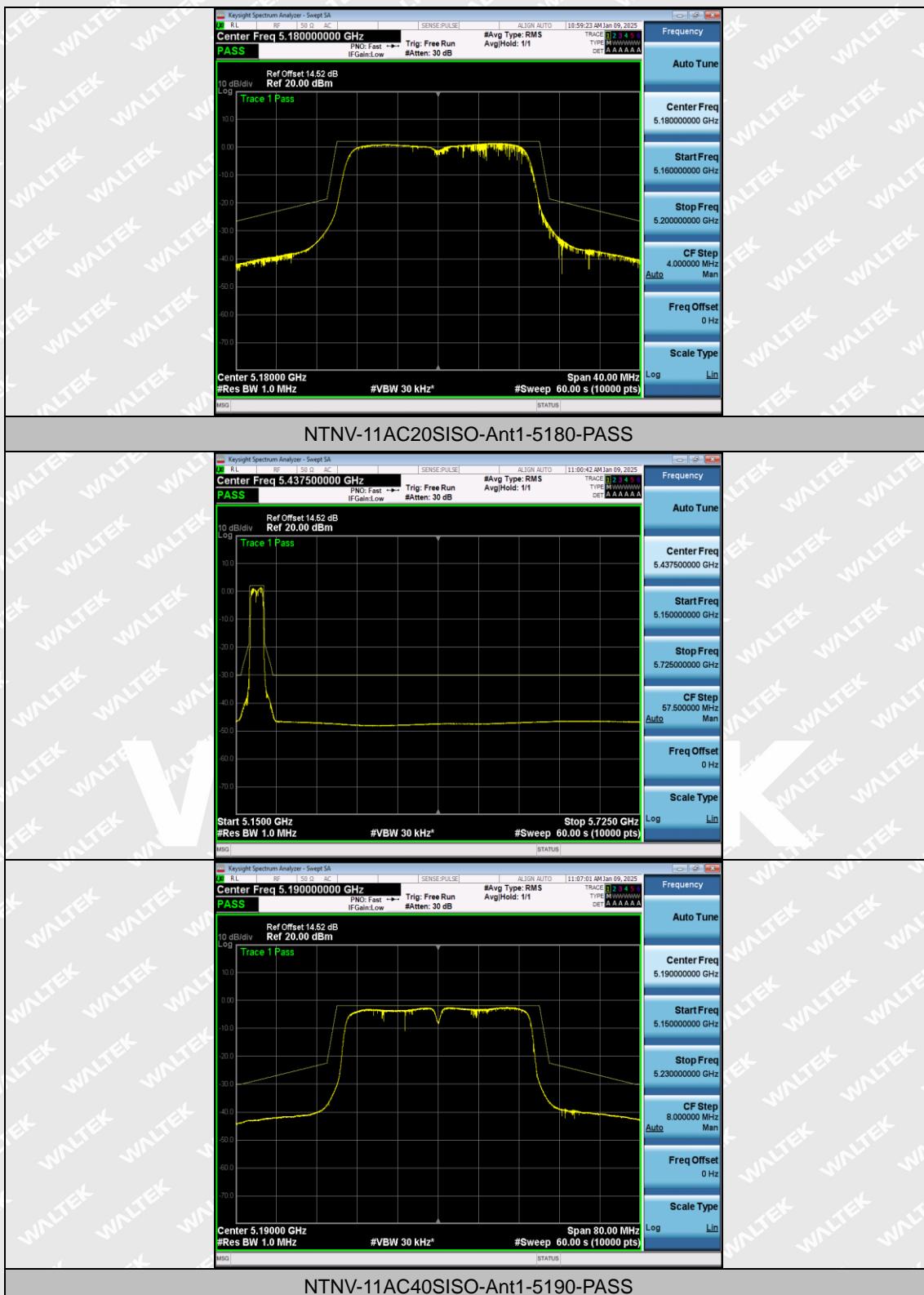
TestMode	Antenna	Frequency[MHz]	Result [dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	See test graph	See test graph	PASS
11N20SISO	Ant1	5180	See test graph	See test graph	PASS
11N40SISO	Ant1	5190	See test graph	See test graph	PASS
11AC20SISO	Ant1	5180	See test graph	See test graph	PASS
11AC40SISO	Ant1	5190	See test graph	See test graph	PASS
11AC80SISO	Ant1	5210	See test graph	See test graph	PASS

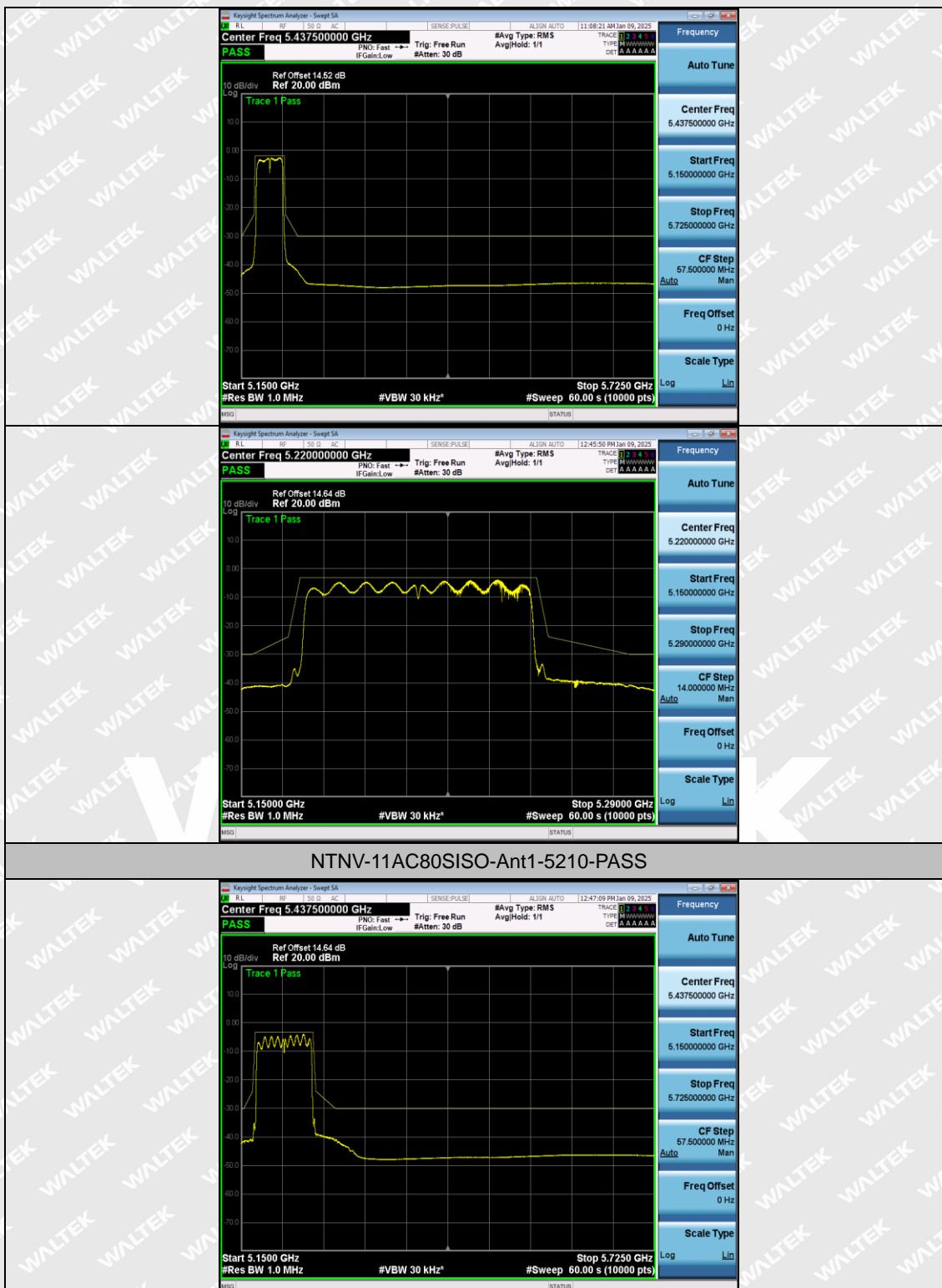


Test Graphs











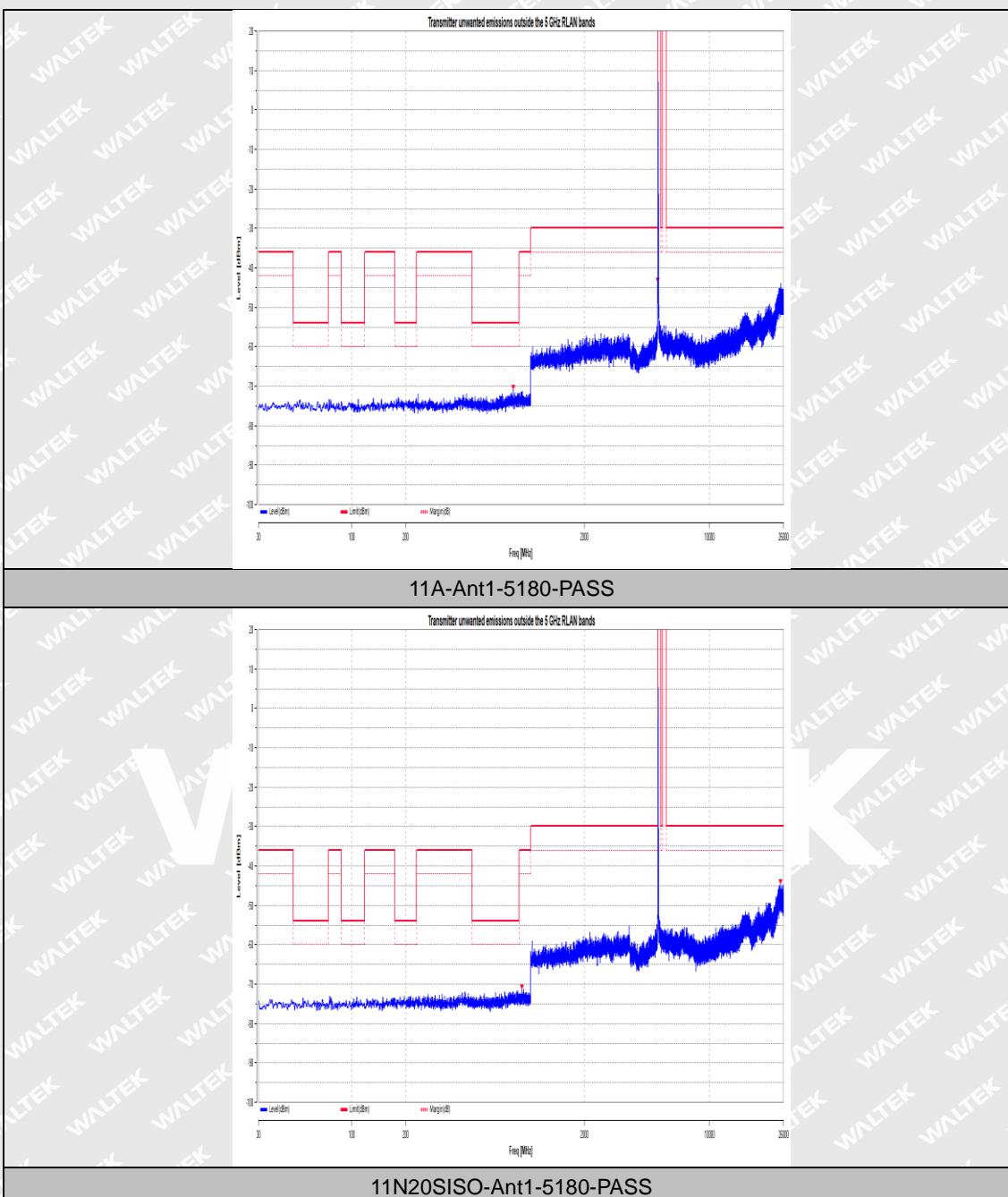
Appendix F: Transmitter unwanted emissions outside the 5 GHz RLAN bands

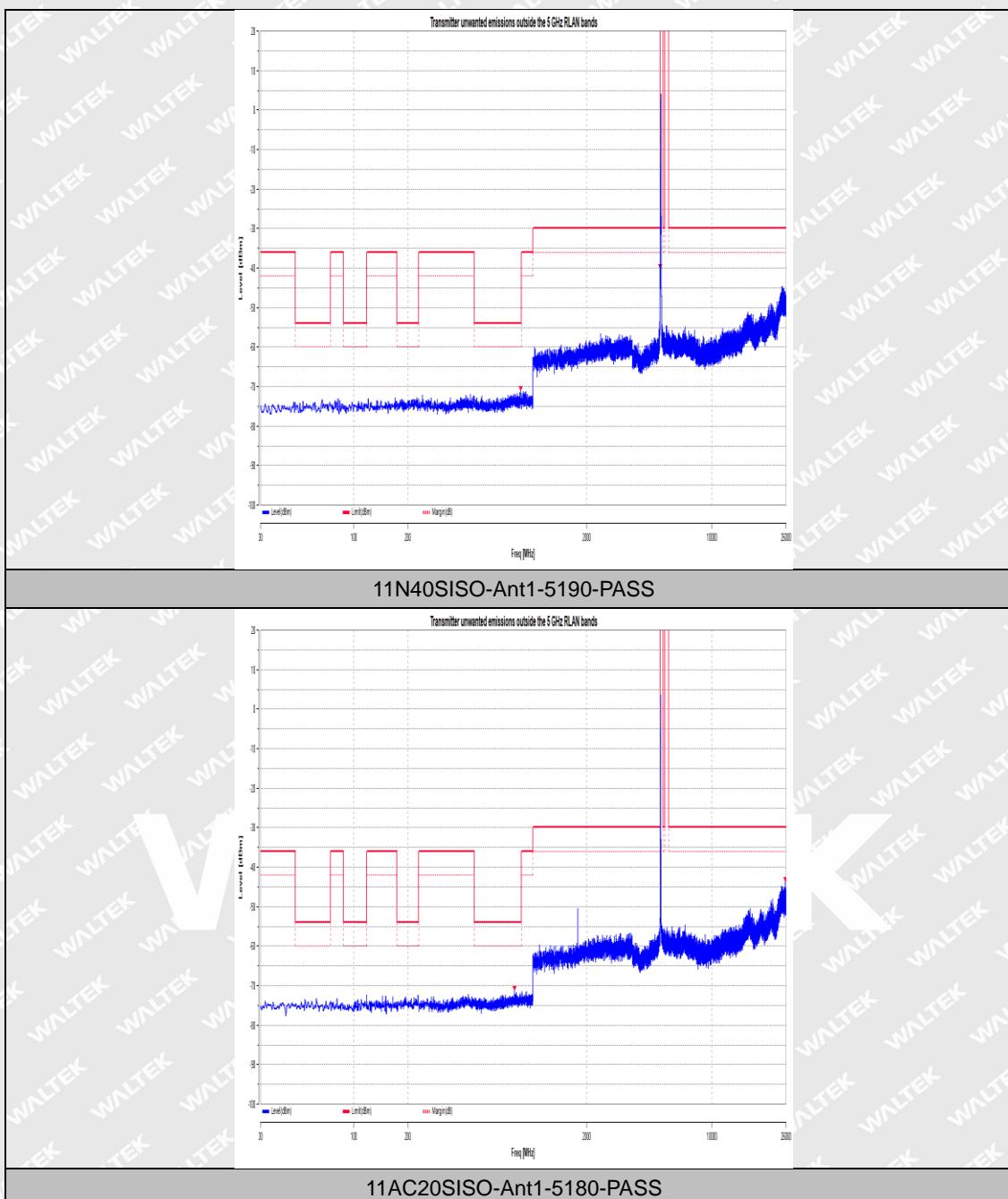
Test Result-Pre-scan

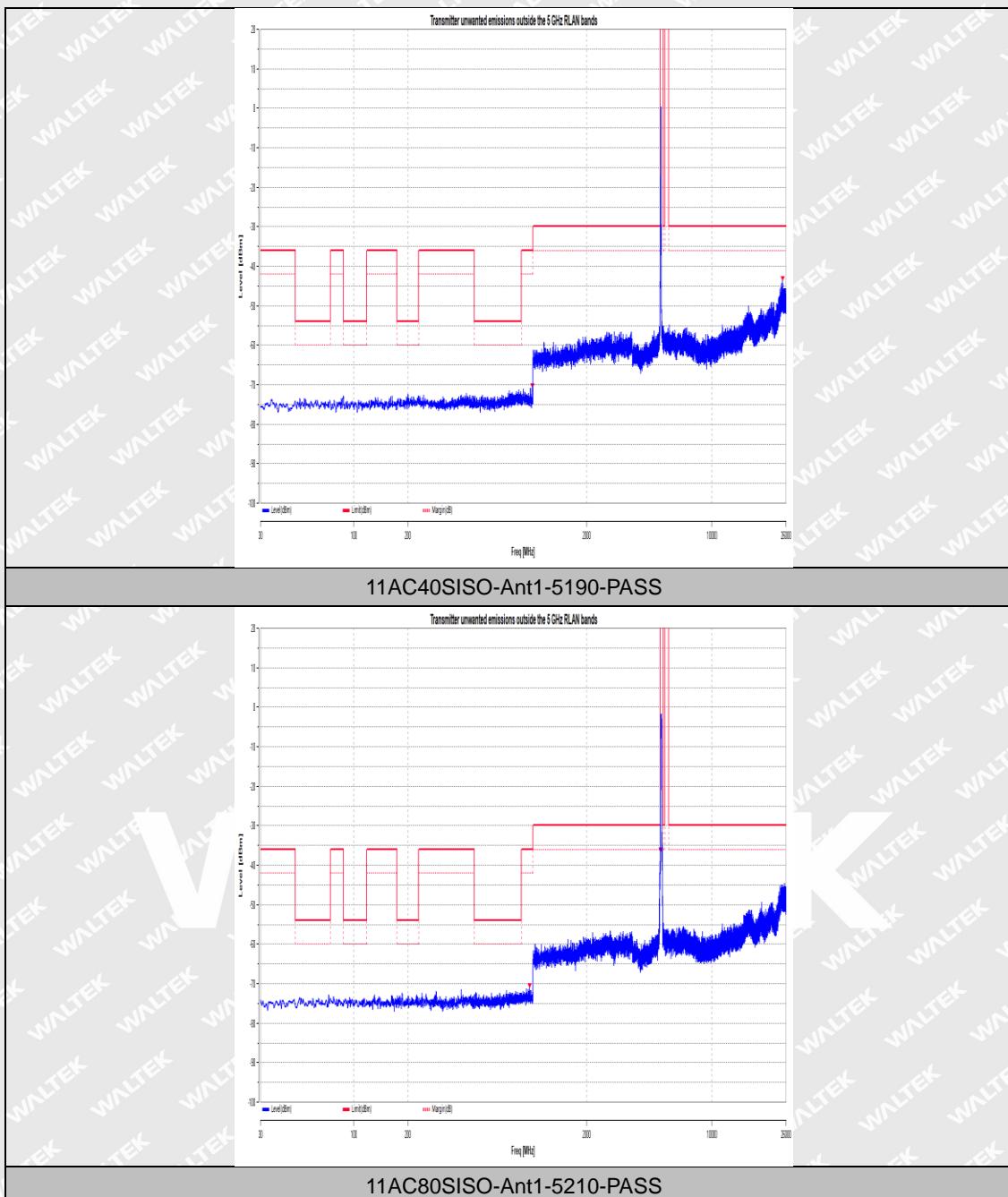
TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	800.18	-70.81	-54	PASS
11A	Ant1	5180	5148.33	-43.68	-30	PASS
11N20SISO	Ant1	5180	894.27	-71.24	-36	PASS
11N20SISO	Ant1	5180	25020.83	-44.53	-30	PASS
11N40SISO	Ant1	5190	855.47	-71.02	-54	PASS
11N40SISO	Ant1	5190	5147.5	-40.22	-30	PASS
11AC20SISO	Ant1	5180	787.57	-71.41	-54	PASS
11AC20SISO	Ant1	5180	25817.5	-43.83	-30	PASS
11AC40SISO	Ant1	5190	992.24	-70.93	-36	PASS
11AC40SISO	Ant1	5190	24889.17	-43.63	-30	PASS
11AC80SISO	Ant1	5210	959.75	-71.2	-36	PASS
11AC80SISO	Ant1	5210	5149.17	-36.77	-30	PASS



Test Graphs-Pre-scan









Appendix G: Receiver spurious emissions

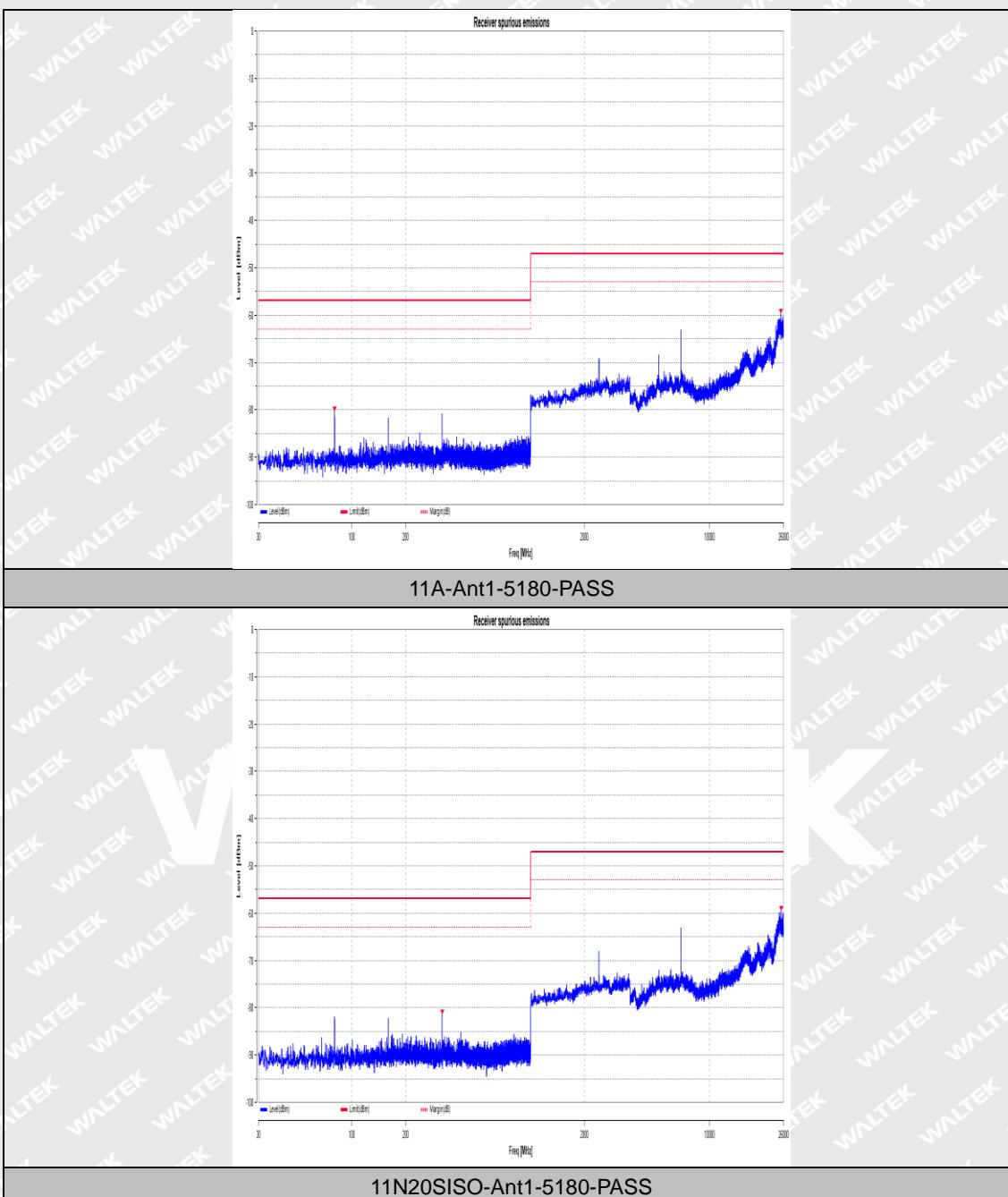
Test Result-Pre-scan

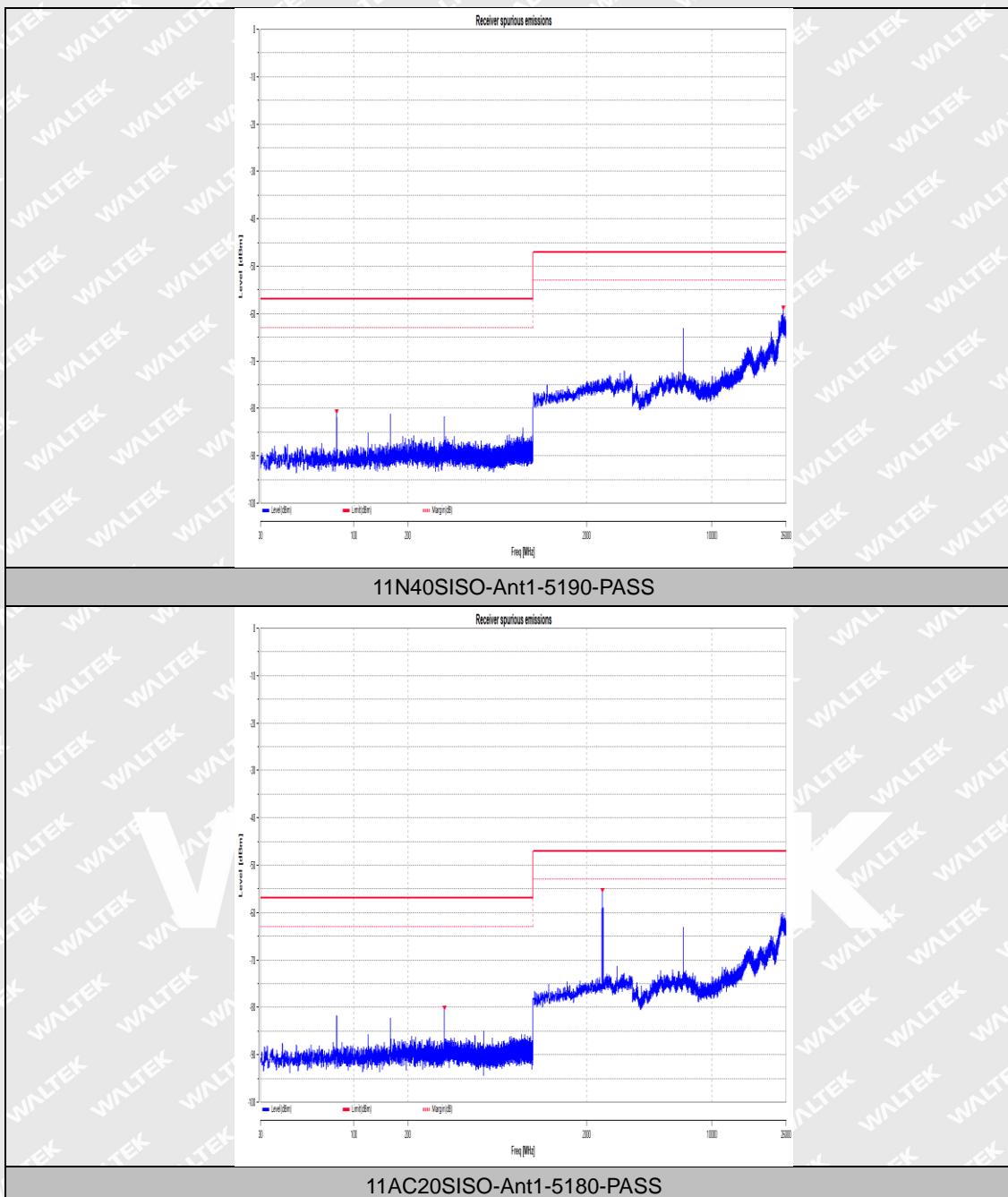
TestMode	Antenna	Frequency[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	79.96	-80.22	-57.00	PASS
11A	Ant1	5180	25134.38	-59.6	-47.00	PASS
11N20SISO	Ant1	5180	320.03	-81.42	-57.00	PASS
11N20SISO	Ant1	5180	25225	-59.55	-47.00	PASS
11N40SISO	Ant1	5190	79.96	-81.19	-57.00	PASS
11N40SISO	Ant1	5190	25046.88	-59.24	-47.00	PASS
11AC20SISO	Ant1	5180	320.03	-80.69	-57.00	PASS
11AC20SISO	Ant1	5180	2440.63	-55.79	-47.00	PASS
11AC40SISO	Ant1	5190	830.01	-64.29	-57.00	PASS
11AC40SISO	Ant1	5190	24615.63	-60.59	-47.00	PASS
11AC80SISO	Ant1	5210	830.13	-64.88	-57.00	PASS
11AC80SISO	Ant1	5210	25081.25	-59.72	-47.00	PASS

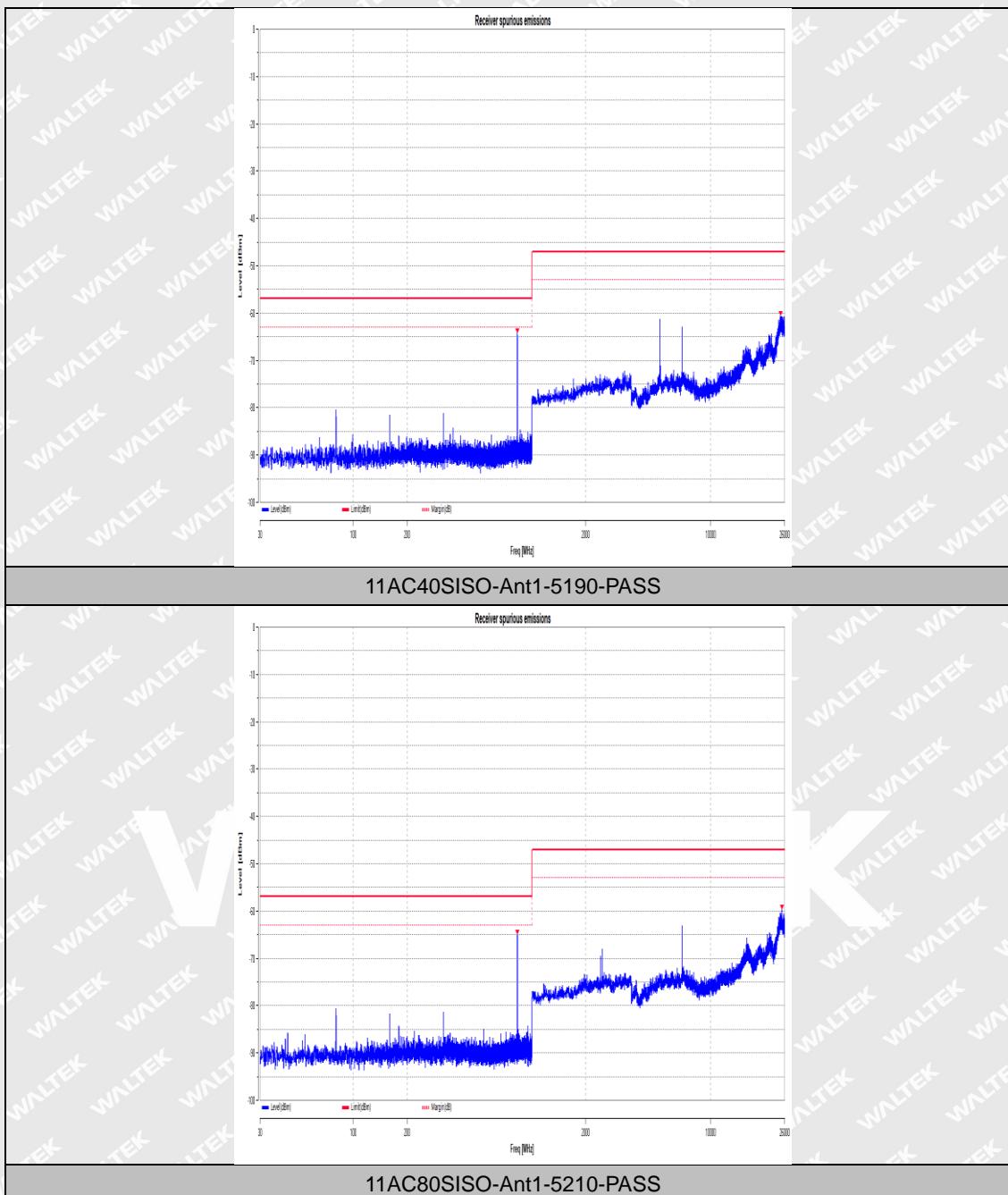
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Test Graphs-Pre-scan









Appendix H: Adaptivity

Test Result

TestMode	Antenna	Frequency[MHz]	Interference Type	Add interference Time [ms]	Interference Level [dBm/MHz]	Max. Short Control number [n]	Limit [n]	Max. Short Control Time [ms]	Limit [ms]	Verdict
11A	Ant1	5180	AWGN	3000	-74.50	4	50	1.30	2.5	PASS
11A	Ant1	5180	OFDM	3000	-74.50	3	50	1.40	2.5	PASS
11A	Ant1	5180	LTE	3000	-74.50	3	50	1.70	2.5	PASS

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Test Graphs

